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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application of: W. James Jackson

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Application No.: 09/677,752

Group Art Unit: 1645

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Filed: October 3, 2000

Examiner: V. Ford

For: CHLAMYDIA PROTEIN, GENE  
SEQUENCE AND USES THEREOF

Attorney Docket No.: 7969-087-999

**SUBMISSION UNDER 37 C.F.R. § 1.114 WITH AMENDMENTS**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

In connection with the accompanying Request for Continued Examination submitted in lieu of a Notice of Appeal, please enter the amendments below and consider the following remarks intended to be fully responsive to the Final Office Action dated May 14, 2002. Submitted herewith is a Petition for an Extension of Time for two months from August 14, 2002 to and including October 15, 2002 as October 14, 2002 was a holiday in the District of Columbia. Also submitted herewith are: (1) Appendix A, a copy of the claims which will be pending upon entry of the amendments herein; (2) Exhibits 1-17 consisting of the following documents:

1. Exhibit 1: The amino acid sequence and nucleic acid sequence of PMPE encoded by plasmid (pQE-pmpE-Ct) #37 obtainable from *E. coli* strain M15 pREP having ATCC No.: PTA-2462 (herein, ATCC PTA-2462) and a BLAST comparison of the amino acid sequence of said PMPE and of SEQ ID NO.: 2 (previously submitted 12/3/01 as Exhibit A)

2. Exhibit 2: Deslauriers et al. (Infection and Immunity 64:434, 1996)
3. Exhibit 3: Sexton et al. (J. of Immunology 152:1861, 1994)
4. Exhibit 4: Briles et al., US Patent No.: 5,964,141
5. Exhibit 5: Carlson et al. (Infection and Immunity 65:2080, 1997)
6. Exhibit 6: Nilsson et al. (J of Clin. Invest. 101, 2640, 1998)
7. Exhibit 7: Charles et al. US Patent No.: 5,975,544
8. Exhibit 8: Longbottom et al., FEMS Microbiol. Lett 143: 277, 1996,  
Longbottom A
9. Exhibit 9: Longbottom et al., Infect. Immun. 66: 1317, 1998,  
Longbottom B
10. Exhibit 10: pairwise BLAST analysis of SEQ ID NO.: 2 with the  
sequence of each of POMP90A, POMP91A and POMP91B
11. Exhibit 11: pairwise BLAST analysis of the amino acid sequence of  
the presently described PMPE protein encoded by ATCC PTA-2462  
with the sequence of each of the POMP90A, POMP91A and  
POMP91B of Longbottom
12. Exhibit 12: a pairwise BLAST analysis of PMPE protein having SEQ  
ID NO.: 2 to the sequence of each of SEQ ID NOS.: 5-14 of Probst
13. Exhibit 13: a pairwise BLAST analysis of the PMPE protein encoded  
by PTA-2462 to the sequence each of SEQ ID NOS.: 5-14 of Probst
14. Exhibit 14: a pairwise BLAST analysis of SEQ ID NO.: 2 of the  
present claims and MOMP of Murdin and a pairwise BLAST analysis  
of the PMPE protein encoded by PTA-2462 and MOMP of Murdin